

POROUS BODY, METHOD OF PRODUCING THE SAME AND EXHAUST GAS PURIFICATION CATALYST USING THE POROUS BODY

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Abstract of JP2001170500

PROBLEM TO BE SOLVED: To provide oxide porous bodies useful for various uses, such as catalysts, catalyst carries, various filters, enzyme carriers, adsorbing agents or fillers. **SOLUTION:** There are provided the new porous bodies, each being characterized in that the center diameter of the pores is in the range of a mesopore region, the distribution of the pores is sharp, at least a portion of the pores communicates in three-dimensional reticular form, the communication paths are random and have three-dimensional reticular structure and fiber-like structure is not substantially included. Concretely, 'an alumina porous body having a sponge structure being amorphous' which has the characteristics mentioned above, is provided. Further, 'an alumina-based porous body, zirconia-based porous bodies, titania-based porous bodies, magnesia-based porous bodies, iron oxide-based porous bodies and ceria-based porous bodies, formed by roughly agglomerating the fine particles of corresponding crystalline oxides having an aspect ratio of ≤ 3 ', all of which have the characteristics mentioned above, are provided. These new porous bodies can be preferably used for various uses, such as catalysts, catalyst carriers, various filters, enzyme carriers, adsorbing agents or fillers.

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